

MAR 07 2007

Appln. No. 10/802,194

Attorney Docket No. 10541-1989

**I. Amendments to the Specification**

Please replace paragraphs [0026], [0027] and [0028] with the following amended paragraphs:

[0026] Fig. 2 shows a heating heat exchanger 3 with integrated gas cooler/condenser. The heating heat exchanger 3 includes coolant tubes 6 and refrigerant tubes 7 alternatingly arranged side by side, which are parallelly passed by the air to be heated. Between the coolant tubes 6 and refrigerant tubes 7 cellular blocks 11 are provided, which enlarge the heat exchanger surface. In the example of the shown embodiment a unit 8, having coolant and refrigerant distributor and collector regions 9, 10, is placed at the head of the heating heat exchanger 3. As used herein, the term collector or collector region unit 8, is also meant to include could also refer to a distributor or distributor region correspondingly functioning, when the corresponding function in the reverse is reversed sense of the corresponding collector region. Thus, separate drawings of the collector and distributor halves of the heating heat exchanger are not required.

[0027] In the example shown, the coolant, and similarly the refrigerant, of the coolant circuit 1, ~~and in a similar manner the refrigerant of the refrigerant circuit 2, are is~~ distributed by the unit 8. ~~The coolant in [a]] the coolant distributor region 9a is~~ circulated into the coolant tubes 6, passes through the coolant tubes 6 thereby dissipating heat to the cellular blocks 11 in thermal contact with the coolant tubes 6 and heating the air to be heated 5. In the redirection region 14 of the coolant tubes 6 the coolant is redirected by 180° and flows in the opposite direction back to the coolant

Appln. No. 10/802,194

Attorney Docket No. 10541-1989

collector region 9, where the coolant is collected and passed on. ~~The refrigerant in a refrigerant distributor region 10a flows into refrigerant tubes 7 and through a similar~~ Similarly, a 180° redirection of refrigerant takes place in the helix-shaped redirection region 12 of the refrigerant tubes 7 before returning to the refrigerant collector region 10.

[0028] In Fig. 3 ~~[[the]]~~ a collector unit 8 for a heating heat exchanger 3 with separate collector and distributor ~~regions~~ units is shown. The collector unit 8 has a coolant collector region 9 and a refrigerant collector region 10 with the refrigerant collector region 10 partly surrounded by the coolant collector region 9. The coolant tubes 6, configured as flat tubes, lead into the coolant collector region 9 of the collector unit 8. The refrigerant tubes 7, configured as flat tubes with channels for the refrigerant, penetrate the coolant collector region 9 and lead into the refrigerant collector region 10, which is separated from the coolant collector region 9, within the collector unit 8. According to the shown preferred embodiment of the invention, two layers of coolant tubes 6 and refrigerant tubes 7 are provided in each case, whereby the refrigerant tubes 7 are only arranged within one layer of the coolant tubes 6.

BRINKS  
HOFER  
GILSON  
& LIONE